05-90

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RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/054,665

DATE: 06/26/2002

TIME: 10:06:21

Input Set : A:\875007US2.txt

Output Set: N:\CRF3\06262002\J054665.raw

## ENTERED

			Output Set	N: (CRES	,00202002 (00	734003.1aw		
	4	<110>	APPLICANT: Engelh	ardt, John	F.			
	5		Duan, Dongsheng	·				
	7	<120>	TITLE OF INVENTIO	N: Adeno-a	ssociated v	virus vecto	îs.	
			FILE REFERENCE: 8					
	11	<140>	CURRENT APPLICATI	ON NUMBER:	US 10/054,	,665 ·		
C>			CURRENT FILING DA					
			PRIOR APPLICATION			25		
	15	<151>	PRIOR FILING DATE	: 1999-03-	25			
	17	<150>	PRIOR APPLICATION	NUMBER: U	s 60/086,16	56		
	18	<151>	PRIOR FILING DATE	: 1998-05-	20			
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	22	<170>	SOFTWARE: FastSEQ	for Windo	ws Version	4.0		
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	25	<211>	LENGTH: 20					
			TYPE: DNA					
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	29	<400>	SEQUENCE: 1					
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	32	<210>	SEQ ID NO: 2					
	33	<211>	LENGTH: 19					
			TYPE: DNA					
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			SÉQUENCE: 2					
	38	gggcg	gagee tatggaaaa					19
			SEQ ID NO: 3					
			LENGTH: 505					
			TYPE: DNA					
			ORGANISM: Artific	ial Sequen	ce			
		5 <220> FEATURE:						
			OTHER INFORMATION	: A consen	sus sequenc	ce		
			SEQUENCE: 3					
	49	cgggg	tegt tgggeggtea g	ccaggcggg	ccatttaccg	taagttatgt	aacgactgca	60 120
			caag ctcgaattca t					<del>-</del>
			ecct agtgatggag t					180 240
			gacc aaaggtcgcc c					300 .
			geag etgegegete g					360 . 360
•			cttt ggtcgcccgg c					420
			cact aggggtteet t					480
			gcat gtgagcaaaa g		ayyeeayyaa	ccycaaaaag	googoguuge	505
			tttt ccataggete c	geee				202
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	ĐΙ	<212>	TYPE: DNA					

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Input Set :  $A:\875007US2.txt$ 

Output Set: N:\CRF3\06262002\J054665.raw

62 <213> ORGANISM: AAV circular intermediate, clone p81								
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65 gcatgcaagc tgtagataag tagcatggcg ggttaatcat taactacaag gaacccctag	120							
66 tgatggagtt ggccactccc tctctgcgcg ctcgctcgct cactgaggcc gggcggccaa	180							
67 aggtegeeeg acgeeeggge tttgeeeggg eggeeteagt gagegagega gegegeagag 68 agggagtgge caactecate actaggggtt eettgtagtt aatgattaae eegeeatget	240							
	272							
69 acttatctac cgatgaattc gagcttgcat gc 71 <210> SEQ ID NO: 5	212							
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73 <212> TYPE: DNA								
74 <213> ORGANISM: AAV circular intermediate, clone p79								
76 <400> SEQUENCE: 5								
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79 togetogete actgaggeeg ggegaecaaa ggtegeeega geeegggett tgeeegggeg	180							
80 gcctcagtga gcgagcgcgc gcgcagagag ggagtggcca actccatcac taggggttcc	240							
81 ttgtagttaa tgattaaccc gccatgctac ttatctaccg atgaattcga gcttgcatgc	300							
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85 <211> LENGTH: 272								
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92 aggtegeeeg acgeeeggge tttggtegee eggeeteagt gagegagega gegegeagag	180							
93 agggagtggc caactccatc actaggggtt ccttgtagtt aatgattaac ccgccatgct	240							
94 acttatctac cgatgaattc gagcttgcat gc	272							
96 <210> SEQ ID NO: 7								
97 <211> LENGTH: 165								
98 <212> TYPE: DNA								
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101 <220> FEATURE:								
102 <223> OTHER INFORMATION: SEQ ID NO:1 of U.S. Patent No. 5,478,745								
104 <400> SEQUENCE: 7	<b>60</b>							
105 aggaacccct agtgatggag ttggccactc cctctctgcg cgctcgctcg ctcactgagg	60							
106 ccgggcgacc aaaggtcgcc cgacgcccgg gctttgcccg ggcggcctca gtgagcgagc	120							
107 gagegegeag agagggagtg gecaacteea teactagggg tteet	165							
109 <210> SEQ ID NO: 8								
110 <211> LENGTH: 282								
111 <212> TYPE: DNA 112 <213> ORGANISM: rAAV circular intermediate, clone p79								
112 <213 ORGANISM: IAAV CITCUIAI INCELMEDIACE, CIONE P/3 114 <400> SEQUENCE: 8								
115 ggcgggccat ttaccgtaag ttatgtggcg actgcaggca tgcaagctcg aattcatcgg	60							
116 tagataagta gcatggcggg ttaatcattg cctacaaaga gcccctagtg attggagtggg	120							
117 ccactccctc tottegecga gegegeagag agggagtgge caactccctc actaggggtt	180							
118 cetggeagtt aatgattaac cegecatget acttatetac agettgeatg catgtgagea								
	240							
119 aaaggccage aaaaggccag gaaccgtaaa aaggccgcgt tg	240 282							
119 aaaggccagc aaaaggccag gaaccgtaaa aaggccgcgt tg 121 <210> SEÓ ID NO: 9	282							
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Input Set : A:\875007US2.txt

Output Set: N:\CRF3\06262002\J054665.raw

123	<212> TYPE: DNA				
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	taaqtaqcat ggcgggttaa tcattaact				120
	tecetetetg egegeteget egetegete				180
	geoggeete agegagegag egagegege				240
	gttccttgta gttaatgatt aacccgcca				300
	qcaaaaqqcc aqcaaaaqqc caggaaccq				345
	<210> SEQ ID NO: 10		- 5 5		
	<211> LENGTH: 276				
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	<400> SEQUENCE: 10	·			
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	taagtagcat ggcgggttaa tcattgcct				120
	caccgagcga gcgagcgcgc agagaggga				180
	aqttaatgat taaccegcca tgctactta				240
	cagcaaaagg ccaggaaccg taaaaaggc			J. J.	276
	<210> SEQ ID NO: 11	<b>3</b> 3 3			
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	taagtagcat ggcgggttaa tcattaact				120
	tecetetetg egegeteget egetegetg				180
	gcgcagagag ggactggcca actccatca				240
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166	taagtagcat ggcgggttac tcattgcct	a caaagagccc	ctagtgatgg	aattggaatg	120
167	atteaccete catgetactt atetacage	t tgcatgcatg	tgagcaaaag	gccagcaaaa	180
168	ggccaggaac cgtaaaaagg ccgcgttg				208
170	<210> SEQ ID NO: 13				
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	aagtagcatg gcgggttaat cattgccta				120
	ccctctctgc gcgctcgctc gctgggccc				180
	ggagtggcca actccatcac taggggttc	· · · · · ·	-	•	240
180	ttatctacag cttgcatgca tgtgagcaa	a aggccagcaa	aaggccagga	accgtaaaaa	300

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181 ggccgcgttg 310

VERIFICATION SUMMARY

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Input Set : A:\875007US2.txt

Output Set: N:\CRF3\06262002\J054665.raw

 $L:12\ M:271\ C:$  Current Filing Date differs, Replaced Current Filing Date